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(71) Applicant (for all designated States except US): **THE UNIVERSITY OF BIRMINGHAM** [GB/GB]; Edgbaston, Birmingham B15 2TT (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **JONES, Samantha** [GB/GB]; 121 Upper Ettingshall Road, Bilston, West Midlands WV14 9QY (GB).

(74) Agent: **WARD, David, I.**; Marks & Clerk, Alpha Tower, Suffolk Street, Queensway, Birmingham B1 1TT (GB).

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(54) Title: IMPROVED INVESTMENT CASTING PROCESS

(57) Abstract: The invention relates to a process for the production of a shell mould, comprising the sequential steps of: (i) dipping a preformed expendable pattern into a slurry of refractory particles and colloidal liquid binder whereby to form a coating layer on said pattern, (ii) depositing particles of refractory material onto said coating, and (iii) drying, steps (i) to (iii) being repeated as often as required to produce a shell mould having the required number of coating layers, characterised in that during at least one performance of step (ii) the particles of refractory material have been premixed with a gel-forming material whereby to coat at least a portion of said refractory particles with said gel forming material such that after contact with the coating layer moisture is absorbed by the gel-forming material thereby causing gellation of the colloidal binder so reducing the time required for drying in step (iii).



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